

BILL NO. S-73-03-19

SPECIAL ORDINANCE NO. S- 36-73

AN ORDINANCE approving a contract with MINNESOTA MINING & MFG. CO. for reflective sheeting and miscellaneous sign faces for the fabrication of Traffic Control Signs and Guides for 1973.

BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF
FORT WAYNE, INDIANA:

SECTION 1. A certain contract approved February 26, 1973, between the City of Fort Wayne, by and through its Mayor and the Traffic Engineering Department and MINNESOTA MINING & MFG. CO., for:

Reflective sheeting and miscellaneous
sign faces

all for a total cost of approximately \$10,000.00 or less, all as more particularly set forth on Purchase Order No. as required, which is by reference incorporated herein and made a part hereof, is here by in all things ratified, confirmed and approved.

SECTION 2. This Ordinance shall be in full force and effect from and after its passage and approval by the Mayor.

William T. King
Councilman

APPROVED AS TO FORM
AND LEGALITY.

Richard B. Teague
CITY CLERK

Read the first time in full and on motion by Henga, seconded by Salinas, and duly adopted, read the second time by title and referred to the Committee on Finance (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on _____, the _____ day of _____, 197____, at _____ o'clock P.M., E.S.T.

Date: 3-27-73

Charles M. Johnston
CITY CLERK

Read the third time in full and on motion by Henga, seconded by Salinas, and duly adopted, placed on its passage. Passed (~~lost~~) by the following vote:

	AYES <u>9</u>	NAYS <u>0</u>	ABSTAINED _____	ABSENT _____	to-wit:
BURNS	_____	_____	_____	_____	_____
HINGA	✓	_____	_____	_____	_____
KRAUS	✓	_____	_____	_____	_____
MOSES	✓	_____	_____	_____	_____
NUCKOLS	✓	_____	_____	_____	_____
SCHMIDT, D.	✓	_____	_____	_____	_____
SCHMIDT, V.	✓	_____	_____	_____	_____
STIER	✓	_____	_____	_____	_____
TALARICO	✓	_____	_____	_____	_____

DATE: 4-10-73

Charles M. Johnston
CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (Zoning Map) (~~General~~) (~~Annexation~~) (~~Special~~) (~~Appropriation~~) Ordinance (Resolution) No. 2-36-73 on the 10th day of April, 1973.

ATTEST: (SEAL)

Charles M. Johnston
CITY CLERK

W. J. ...
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 11th day of April, 1973, at the hour of 10:00 o'clock A. M., E.S.T.

Charles M. Johnston
CITY CLERK

Approved and signed by me this 11th day of April, 1973, at the hour of 3:30 o'clock P. M., E.S.T.

John H. ...
MAYOR

Bill No. S-73-03-19

REPORT OF THE COMMITTEE ON FINANCE

We, your Committee on Finance to whom was referred an Ordinance
approving a contract with MINNESOTA MINING & MFG.
CO. for reflective sheeting and miscellaneous sign
faces for the fabrication of Traffic Control Signs
and Guides for 1973.

have had said Ordinance under consideration and beg leave to report back to the Common
Council that said Ordinance Do PASS.

William T. Hinga - Chairman

John Nuckols - Vice-Chairman

James S. Stier

Samuel J. Talarico

Paul M. Burns

William T. Hinga
John Nuckols
James S. Stier
Samuel J. Talarico
Paul M. Burns
CONCURRED IN

DATE 1-10-73

GIVEN BY CLERK CITY CLERK

memo from

Purchasing Department

March 2, 1973

Board of Public Safety
9th Flr., City-County Bldg.
One Main St., Ft. Wayne, Ind. 46802

Attn: Tom Casaburo Ref: Bid Ref. No. 506

Attached copy of the successful bidder.

Minnesota Mining & Mfg. Co., (As Required)

Reflective Sheeting as selected from catalog

Tabulation sheet attached.



House Memorandum

To Walter Stout-Traffic Engrg. Operations Date February 21, 1973
From A.T. Demetroff, Dept. of Purchases
Subject Bid No. 506, Reflective Sheeting

COPIES TO:

The following are bids received for the above
bid.

Please review and return as soon as possible.

26TH FEBRUARY 1973

PLEASE BE ADVISED THE ATTACHED BID
HAS BEEN REVIEWED BY OUR OFFICE. WE
ARE REQUESTING THE BID BE AWARDED TO
MINNESOTA MINING AND MANUFACTURING
COMPANY OF ST. PAUL, MINNESOTA.
THANK YOU.

WALT STOUT
TRAFFIC ENGINEERING

3M Co. is ONLY BIDDER.

[illegible]



GENERAL OFFICES • 3M CENTER • SAINT PAUL, MINNESOTA 55101 • TEL. (612) 733-1110

BID PROPOSAL - PRICE CONTRACT

Proposal of MINNESOTA MINING AND MANUFACTURING COMPANY, 3M CENTER, ST. PAUL, MINNESOTA for
CITY OF FORT WAYNE, INDIANA covering the products listed below,
 for a CONTRACT PERIOD OF DATE OF AWARD THROUGH DECEMBER 31, 1973
 TERMS: NET 30 DAYS; DELIVERY: 20 - 40 DAYS AFTER RECEIPT OF ORDER; F.O.B. DESTINATION

(This proposed contract covers ONLY those items marked "X". You will note other product price pages are attached to our standard proposal. Disregard any items you do not wish in this contract or indicate with an "X" in the proper box those items you want to add.)

PROPOSAL

- | | | |
|-------------------------------------|--|----------------------|
| <input checked="" type="checkbox"/> | 1. "SCOTCHLITE" BRAND REFLECTIVE SHEETING, ENGINEER GRADE | (See Attachment "A") |
| <input checked="" type="checkbox"/> | 2. "SCOTCHCAL" BRAND FILM | (See Attachment "B") |
| <input checked="" type="checkbox"/> | 3. "SCOTCHLITE" BRAND REFLECTIVE SHEETING, ENGINEER GRADE AND "SCOTCHCAL" BRAND CUT-OUT LETTERS, TRAFFIC AND STREET NAME SIGN FACES AND ALLIED ITEMS | (See Attachment "C") |
| <input checked="" type="checkbox"/> | 4. "SCOTCH-LANE" BRAND PAVEMENT STRIPING TAPE | (See Attachment "D") |
| <input checked="" type="checkbox"/> | 5. "CODIT" AND "SCOTCHLITE" BRAND REFLECTIVE LIQUID; "SCOTCH-LITE" AND "SCOTCHCAL" BRAND PROCESS COLORS | (See Attachment "E") |
| <input checked="" type="checkbox"/> | 6. "SCOTCHLITE" BRAND REFLECTIVE DELINEATORS | (See Attachment "F") |
| <input checked="" type="checkbox"/> | 7. "GREEN LITE" BRAND STRIPING POWDER | (See Attachment "G") |
| <input checked="" type="checkbox"/> | 8. "CENTERLITE" BRAND REFLECTIVE COMPOUND | (See Attachment "H") |
| <input checked="" type="checkbox"/> | 9. "SCOTCHLITE" BRAND APPLICATOR PARTS LIST | (See Attachment "I") |
| <input checked="" type="checkbox"/> | 10. "SCOTCHLITE" BRAND REFLECTIVE SHEETING, HIGH INTENSITY GRADE | (See Attachment "J") |
| <input checked="" type="checkbox"/> | 11. "SUPERBRITE" BRAND BISSYMETRIC BONDING GLASS SPHERES | (See Attachment "K") |
| <input checked="" type="checkbox"/> | 12. "CERAMASCAPE BRAND LANDSCAPE SURFACING MATERIALS | (See Attachment "L") |

If your order or contract is received by March 23, 1973 the prices quoted herein will be held firm for the life of the contract.

One copy (this page only) of your signed acceptance of this proposal should be sent to:
 E.V. Jarvinen - Bldg. 224-62, 3M Company, 3M Center, St. Paul, Minnesota 55101, to validate this contract.

Orders should be sent to our office located at: 3M Company, 3M Center, St. Paul, Minnesota 55101; Attn: TRAFFIC CONTROL PRODUCTS DIVISION - BLDG. 224-62 - ORDER DEPARTMENT

ACCEPTANCE:

CITY OF FORT WAYNE, INDIANA

MINNESOTA MINING AND MANUFACTURING COMPANY

By James C. Stadler

James C. Stadler
James C. Stadler

James C. Stadler
 Merchandising Manager

Date February 14, 1973

By _____
 Title _____
 Date _____

Number One Main St., Ft. Wayne, Ind. 46802

INVITATION

Operations, subject to the conditions on the reverse hereof, are requested on the following list of materials, supplies, equipment or service, for the department as mentioned, with delivery to destination as shown below. Quotations shall include all charges for delivery, packing, etc. Address your reply as indicated below. (Telephone 423-7037)

*Mail all replies and correspondence, etc. to Attn. of

A.T. Demetroff

DEPARTMENT OF PURCHASES

470 Room 207, Number One Main St., Ft. Wayne, Ind. 46802

REQUIRED FOR DELIVERY TO:

Department Traffic Engineering Operations
or Division 1710 S. Lafayette St.

Address Fort Wayne, Indiana

RETURN ORIGINAL TO THE CITY—RETAIN DUPLICATE COPY FOR YOUR FILE

Closing Wednesday, February 21, 1973 at 10:00 A.M.

Time of Bids

TAXES: THE CITY IS EXEMPT FROM FEDERAL EXCISE AND INDIANA STATE SALES TAX. THE CITY'S INDIANA SALES TAX EXEMPTION CERTIFICATE NUMBER IS NO. 3492. PRICES SHOULD NOT INCLUDE THESE TAXES. See "Instructions to Bidders" No. 10 on reverse hereof for details.

TAX EXEMPT (Unless otherwise indicated)

Quantity	Unit	Materials, Supplies, Equipment or Service	Unit Price	Price Amount
		Reflective Sheeting & Sign Faces, per specifications enclosed.		
		SEE "BID PROPOSAL-PRICE CONTRACT" ENCLOSED AND HEREBY MADE A PART OF OUR BID.		

Bid Bond required ☐ NO ☒ YES 5 % of Bid Performance Bond ☐ NO ☒ YES
See Instruction Item No. 15 on reverse side hereof.
Terms 0 % cash discount if paid within 30 days from delivery and acceptance of goods or completion of services.

PROPOSAL OR BID

In compliance with the above invitation for bids and subject to all conditions thereof, the undersigned offers and agrees, if this bid is accepted within a reasonable time from date of closing, to furnish any or all of the items or render such services upon which prices are quoted, in accordance with the specifications applying and as the price set opposite such item.

Delivery of any or all of the items or completion of services indicated shall be made within 20-40 days from receipt of order.

IMPORTANT

As delivery may be a deciding factor in the award of an order, it is important that bidders furnish the information requested above.

Sign Here:

MINNESOTA MINING AND MANUFACTURING COMPANY

Name of Company Merchandising

For James C. Stadler, Manager

Address 3M Center

St. Paul, Minnesota 55101

Date 2-14-73

GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND INFORMATION FOR BIDDERS

1. **Special Conditions:** Special conditions included in the Bid Document shall take precedence over any provisions stipulated hereunder.
2. **Applicable Laws:** The Revised statutes of the State of Indiana, and all City ordinances insofar as they apply to the laws of competitive bidding, contracts, and purchases, are made a part hereof.
3. **Workmen's Compensation:** Insofar as Workmen's Compensation Act is concerned, the bidder or contractor agrees to furnish an official certificate from the Industrial Board of Indiana, showing that he is in compliance with such law, whenever such certificates are required in the Bid Document.
4. **Infringements and Indemnifications:** The bidder, if awarded an order or contract, agrees to protect, defend, and save the City harmless against any demand for payment for the use of any patented material, process, article, or device that may enter into the manufacture, construction, or form a part of the work covered by either order or contract and he further agrees to indemnify and save the City harmless from suits or actions of every nature and description brought against it, for or on account of any injuries or damages received or sustained by a party or parties, by or from any of the acts of the contractor, his servants, or agents.

To this extent the bidder or contractor agrees to furnish adequate Public Liability and Property Damage Insurance, the amount of which will be determined by the City whenever such insurance is deemed necessary. When so required the types and amounts of insurance to be provided is set forth in the Bid Document.

5. **Pricing:** Prices should be stated in units of quantity specified in the Bid Document. In case of discrepancy in computing the amount of the bid the unit prices quoted will govern.
6. **Delivery:** Quotations should include all charges for delivery, packing, crating, containers, etc. Unless otherwise stated by the bidder prices quoted will be considered as being based on delivery to the destination designated in the Bid Document and to include all delivery and packing charges.
7. **Specifications:** Unless otherwise stated by the bidder the proposal will be considered as being in strict accordance with the specifications outlined in the Bid Document.

References to a particular trade name, manufacturer's catalog or model number are made for descriptive purposes to guide the bidder in interpreting the requirements of the City. They should not be construed as excluding proposals on other types of materials, equipment and supplies. However the bidder, if awarded a contract, will be required to furnish the particular item referred to in the specifications or description unless a departure or substitution is clearly noted and described in the proposal.

8. **Samples:** Samples, when requested, must be furnished free of expense to the City and if not destroyed, will upon request be returned at the bidder's expense.
9. **Cash Discounts:** Time in connection with cash discount offered, will be computed from date of delivery and acceptance at final destination or from date properly executed claim voucher is received, if the latter date is later than the date of delivery and acceptance.
10. **Taxes:** The City is generally exempt from Federal Excise and Indiana State Sales Tax. Quotations must be separated to show the amount to be added for taxes of any kind if applicable. Prices should not include tax. The City will pay such taxes as are applicable to this purchase. Exemption forms will be furnished wherever necessary. Taxes wherever indicated and which are applicable to this purchase, will not be subject to any trade or cash discounts.
11. **Bid Informalities and Rejection:** The City reserves the right to waive informalities not inconsistent with law or to reject any or all bids.
12. **Award:** Unless otherwise specified in the Bid Document the City reserves the right to accept any item in the bid. Unless otherwise stated in the Bid Document bidders may submit proposals on any item or group of items, provided however that the unit prices are shown as requested.
13. **Payments:** Partial payments may be made upon presentation of properly executed claim voucher unless otherwise stated in the Bid Document. The final payment will be made by the City when the materials, supplies or equipment has been fully delivered and accepted or the work completed to the full satisfaction of the City.
14. **Maker's Signature:** Each proposal form must be signed by the bidder with his usual signature. All signatures should be in full. Bids by partnership should include the names of the partners composing the partnership and must be signed by one or more of the partners in the following manner: "John Jones and James Smith, d.b.a., Smith-Jones Company, by John Jones, a partner".

Bids by corporations must be signed with the names of the corporation, followed by the signature and designation of the president, vice-president, or person authorized to bind it in the matter.

15. **The successful bidder, or contractor, agrees that he will comply with Indiana Acts 1961, chapter 228, section 10, being Burns Indiana Statute 40-2314-1964 supplement requiring such bidder, contractor, or his subcontractor not to discriminate with respect to hiring, tenure, terms, conditions, or privileges of employment because of race, color, religion, national origin or ancestry.**
16. **Unless otherwise specifically indicated under the individual listing in the legal advertisement or invitation to bid, all bids shall be subject to the following.**
 - a) A Bid bond, deposit of cash, certified check or Bank Cashiers Check, in the amount specified, drawn on a solvent bank payable to the City of Fort Wayne or to the contracting division thereof.
 - b) The successful bidder will be required to furnish a bond or Certified Check on a solvent bank, payable to the City of Fort Wayne or to the contracting division thereof, in the amount specified in the notice of bids wanted or the invitation to bid, as a guarantee for the faithful performance thereof.
17. **Submission and Receipt of Bids:**
 - a) Proposals, to receive consideration, must be received prior to the specified time of closing as designated in the invitation.
 - b) Bidders must use the Bid Document proposal form furnished by the City as none other will be accepted. Proposal forms must be returned intact. Removal of any part thereof may invalidate the bid.
 - c) Bidders are requested to use the Bid Envelope if furnished by the City, or other similarly identified envelope to assure proper handling. Envelopes should be sealed when submitted with information on the face of the Bid Envelope to identify the bid, e.g., Bid Reference number and date of closing and City Agency involved.
 - d) Separate proposals must be submitted on each reference number.
 - e) Proposals having any erasures or corrections thereon may be rejected unless explained or noted over the signature of the bidder.

Accepted _____ 10 _____ as follows:
 Board-Committee Task of Purchasing, etc.
 Rejected _____ 12 _____ as follows:
 Board-Committee Task of Purchasing, etc.

OFFICE OF CITY TRAFFIC ENGINEER

FORT WAYNE, INDIANA

SPECIFICATIONS FOR REFLECTIVE SHEETING
AND SIGN FACES, ETC.SCOPE AND CLASSIFICATION

SCOPE. This specification covers flexible, colored, reflective sheeting and tape, coated on one side with an adhesive backing protected by a removable liner.

CLASSIFICATION - The Reflective sheeting and tape shall be of the following types, classes, and colors as specified.

Type 1- Sheeting, reflective (sheets or rolls)

Class 1- Manual Application (pressure sensitive adhesive)

Class 2- Mechanical application.

a- Solvent activated.

b- Heat activated

Colors: White, silver white No. 1 and No. 2, yellow, red, dark red orange, green, blue, and gold.

APPLICABLE SPECIFICATIONS AND STANDARDS.

The following specifications and standards, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

Federal Specifications:

QQ-A-250- Aluminum Alloy Plate and Sheet; General Specification
for.

QQ- A-250/5- Aluminum Alloy Alclad 2024, Plate and Sheet

TT-T- 266- Thinner; Dope and Lacquer (Cellulose- Nitrate).

Reflective Sheeting Cont'd

PPP-B-601- Boxes, Wood, Cleated- Plywood.

PPP-B-621- Boxes, Wood, Nailed and Lock-Corner

PPP-B-636- Box, Fiberboard

FEDERAL STANDARDS:

Fed. Std. No. 102- Preservation, Packaging, and Packing Levels.

Fed. Std. No. 123- Marking for Domestic Shipment (Civilian Agencies).

Fed. Test Method Std. No. 141- Paint, Varnish, Lacquer and Related Materials; Methods of Inspection, Sampling and Testing.

All specifications as detailed in Federal Specification L-S-300 Form the basis for this specification and shall be considered the binding requirements for compliance.

For furnishing during the period of the contract and at the prices indicated, the requirements of the commodities listed herein which may be required by the Traffic Engineering Department of the City from time to time. It is understood that the quantities are approximate only and in no way shall govern the amount required during the period of the contract.

DELIVERY AND CONTRACT PERIOD:

The commodity shall be delivered to the City as needed and ordered beginning on the date of the contract award and ending December 31, 1973. Each release for delivery shall be evidenced by a regular purchase order issued by or on behalf of the using department.

PRICING-INVOICING:

The bidders' prices shall include all delivery charges and be submitted in the bidders proposal section included herein. Invoices must be submitted to the using department together with the City's standard claim form for that department.

ITEM 1

Reflective and non-reflective sheeting, Regulatory, Warning, guide and street name faces; and related items pertaining thereto in accordance with the enclosed specifications.

Reflective Sheeting Cont'd.ESTIMATED QUANTITY:

Miscellaneous purchases of the listed items in the amount of ten thousand dollars (\$10,000.00) or less. A price list, discount sheet and catalog will be acceptable for the purpose of the determining the award.

OPTIONAL RENEWAL:

By mutual agreement between the City and the Contractor, the Contract period may be extended for an additional period not to exceed (1) One year. However, the agreement to extend must be completed in writing not less than (15) fifteen days prior to January 1st, 1974. The contract may be extended only at the same price and under the same conditions governing the original contract. Estimated requirements for the optional renewal period herein are estimated to approximate the estimated quantities set forth in the initial contract period; as provided above, the estimated amount shall in no way govern the amount required during any optional renewal period.

NON-COLLUSION AFFIDAVIT

MINNESOTA
STATE OF ~~MINNESOTA~~
_____ Ramsey _____ COUNTY } SS:

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting, nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale or contract.

James C. Stadler

James C. Stadler
Merchandising Manager

Bidder or Agent

For MINNESOTA MINING AND MANUFACTURING COMPANY
Firm or Corporation

Subscribed and sworn to before me this 14th day of February, 1973

My Commission Expires
R. J. LaVALLE,
Notary Public, Ramsey County, Minn.
My Commission Expires Feb. 4, 1977

R. J. LaValle

REQUEST FOR PUBLICATION

News	
Sentinel	X
Journal	
Gazette	X
Other	

DATE February 2, 1973

Kindly publish the following advertisement on the dates as shown and issue invoice to "

* Department Traffic Engineering Operations
1710 S. Lafayette St.
 Address Fort Wayne, Indiana

Department of Purchases
 City of Fort Wayne

By *C. J. H. [Signature]*

BIDS WANTED - REFERENCE NO. 506

Sealed Proposals will be received by the City of Fort Wayne at the Office of Department of Purchases, Number One East Main Street, Room 470 ~~SCX~~, Fort Wayne, Indiana, until 10:00 A.M., Wednesday, February 21, 1973 for the following items:

Reflectiv Sheeting & Sign Faces

Bid Forms, specifications, etc., may be obtained upon application at the office and address given above.

A Bid Bond or Certified Check in the amount of \$ 5% of Bid must be submitted with the bid.

Department of Purchases
 City of Fort Wayne
~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ A.T. DEMETROFF
 Director of Purchases

INSERT 1st RUN

REPEAT 2nd RUN

Type of Advertising Requested

February 8, 1973

February 15, 1973

LEGAL NOTICE X

PROPOSAL AND BID SURETY FORM**PROPOSAL:**

In compliance with the foregoing invitation to bid and subject to all of the conditions thereof the undersigned offers and agrees, if this bid is accepted within a reasonable time from date of opening of bids, to enter into a contract in accordance with the prices stated herein.

The Legal Advertisement, General Conditions, Instructions to Bidders, Information for Bidders, Special Conditions, Specifications, and Plans applying form a part of this proposal.

This proposal is supported by the following bid surety as required by law and signatures affixed thereto constitute both a proposal and bid surety executed by the bidder.

BID SURETY (REQUIRED BY LAW):

BOND FORM: (USE THIS BOND FORM—NO ALTERNATE FORM OF BOND WILL BE CONSIDERED).

KNOW ALL MEN BY THESE PRESENTS, THAT we, the undersigned, are held and firmly bound unto the City of Fort Wayne, State of Indiana, in the sum of.....

.....Dollars, to be paid on demand to said City of Fort Wayne, its successors and assigns for which payment well and truly to be made, we hereby bind ourselves, our heirs, successors, executors, and administrators, jointly and severally firmly by these presents.

The condition of this obligation is such that if the bid or proposal attached hereto and made a part hereof and submitted to the within named division of the City of Fort Wayne or its duly constituted agent, is accepted and a contract awarded to the undersigned bidder and the said bidder shall within ten (10) days after notice of said award enter into a contract with the said City of Fort Wayne, State of Indiana, and shall secure the performance of the same by bond or otherwise as may be required to the satisfaction of the City of Fort Wayne, Indiana then this obligation shall be null and void; otherwise to be in full force and effect.

BID CHECK (ALTERNATE FORM OF SURETY):

Certified ☐

Cashiers ☐

Check No.

in the sum of

If corporate surety is furnished, it is necessary that a certificate authorizing the "attorney-in-fact" to sign the bond accompanying the same.

.....Dollars
on Bank

is herewith submitted and deposited in lieu of bond under the same terms and conditions as set forth in the above bond.
Note: If Check is used as Bid Surety—Attach here.

SIGNATURES (BID SURETY AND PROPOSAL):

Witnessed by:

BIDDER
AND
PRINCIPAL

OTHER PARTIES INTERESTED IN THIS PROPOSAL

(See 14—Signatures under General Conditions, etc.)

List all Parties if Partnership

MINNESOTA MINING AND MANUFACTURING COMPANY

Name of Bidder—Print or Type

By

James C. Stadler
Signature of Person Authorized to Sign
James C. Stadler

Title Merchandising Manager

3M Center

Street Name and Number

St. Paul, Minnesota 55101

City, State and Zip Code

Date February 14, 1973

Witnessed by:

SURETY

Name of Company — Print or Type

Incorporated
In the State of:

Address.....

PROPOSED SPECIFICATION

SHEET REFLECTIVE MATERIALS — ENCLOSED LENS
FOR TRAFFIC CONTROL SIGNS

SECTION I — DESCRIPTION

The reflective sheeting shall consist of spherical lens elements embedded within a transparent plastic having a smooth, flat outer surface. The sheeting shall be weather resistant and have a protected pre-coated adhesive backing.

SECTION II — REQUIREMENTS

A. Photometric

1. Background — The reflective sheeting shall have the following minimum brightness values at .2° and .5° and 1.5° divergence expressed as average candlepower per foot-candle per square foot (candelas per lux per square meter) of material. Measurements shall be conducted in accordance with standard testing procedures for reflex-reflectors of Federal Specification L-S-300A, "Sheeting and Tape, Reflective, Nonexposed Lens Adhesive Backing", para. 4.4.7 or as amended.

Div. Ang. Inc. Ang.	Silver-White #1			Silver-White #2			Yellow		
	.2°	.5°	1.5°	.2°	.5°	1.5°	.2°	.5°	1.5°
-4°	70	30	4	80	41	4	50.0	25.0	5.0
40°	14.5	8.5	1.5	16.5	9.5	2.0	11.5	7.0	1.5
Div. Ang. Inc. Ang.	Red			Blue			Green		
	.2°	.5°	1.5°	.2°	.5°	1.5°	.2°	.5°	1.5°
-4°	14.5	7.5	1.0	4	2	0.6	9	4.5	1.0
40°	3.0	1.5	0.3	0.9	0.4	0.08	1.8	1.5	0.2
Div. Ang. Inc. Ang.	Orange								
	.2°	.5°	1.5°						
-4°	25.0	13.5	1.5						
40°	1.0	0.8	0.1						

2. Applied or Demountable Copy — Reflective sheeting for all sign copy including letters, numerals, symbols, borders, and route markers shall be Silver-White #2 which has been carefully selected by the manufacturer for uniformity of day and night appearance. No further matching shall be necessary.
3. Rainfall Performance — The brightness of the reflective sheeting, totally wet by rain, shall not be less than 90% of the above values. Wet performance measurements shall be conducted in conformance with Standard RAINFALL TEST specified in Federal Specification L-S-300A, "Sheeting and Tape, Reflective, Nonexposed Lens Adhesive Backing".

B. Color

The diffuse day color of the reflective sheeting shall conform to the requirements of Table I and

and centered about a direction 45 deg from the perpendicular to the test surface; viewing is within 15 deg of and centered about the perpendicular to the test surface. Conditions of illumination and observation must not be interchanged.) The standards to be used for reference shall be the MUNSELL PAPERS designated in Table I. Papers must be recently calibrated on a spectrophotometer.

The test instrument shall be one of the following:

1. GARDNER multipurpose Reflectometer.
2. GARDNER Model AC-2a Color Difference Meter
3. MEECO Model V Colormaster
4. HUNTERLAB D25 Color Difference Meter

TABLE I — CIE CHROMATICITY COORDINATE LIMITS

									(Y)		Ref. Std. MUNSELL PAPER
									Reflectance	Limit	
	x	y	x	y	x	y	x	y	Min.	Max.	
Silver-White #1 & 2	.320	.310	.360	.360	.338	.377	.300	.328	34.0		5.1GY6.91/1.2
Yellow	.482	.450	.532	.465	.505	.494	.475	.485	29.0	40.0	1.25Y6/12
Red	.602	.317	.664	.336	.644	.356	.575	.356	8.0	11.0	8.2R3.78/14.0
Green	.140	.354	.179	.372	.147	.435	.120	.420	4.0	7.0	.65/BG2.84/8.45
Blue	.147	.075	.176	.091	.176	.151	.106	.113	1.0	2.4	5.8PB1.32/6.8
Orange	.535	.375	.535	.399	.582	.417	.607	.393	19.77	30.05	2.5YR5.5/14.0

C. Adhesive

1. The reflective sheeting shall include a pre-coated pressure sensitive adhesive or a tack-free heat activated adhesive, either of which may be applied without necessity of additional adhesive coats on the reflective sheeting or application surface.
2. The protective liner attached to the adhesive shall be removed by peeling without soaking in water or other solvents and shall be easily removed after accelerated storage for four hours at 150°F. (65°C.) under weight of 2.5 pounds per square inch (0.18 kg. per square cm.).
3. The adhesive shall form a durable bond to smooth, corrosion and weather-resistant surfaces. The reflective sheeting, applied to cleaned and etched aluminum test panels shall adhere securely, 48 hours after application, at temperatures of -30°F. to 200°F. (-35°C. to 93°C.). The adhesive bond shall be sufficient to render the applied sheeting vandal-resistant and prevent its shocking off when jabbed with a spatula at -10°F. (-23°C.). The sheeting shall resist peeling from the application surface when a 5 lb./in. width (2.27 kg. per 2.54 cm. width) force is applied as outlined in ASTM-D-903-49.

D. Film

1. General — The reflective sheeting shall have sufficient strength and flexibility so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable stretching, tearing, or other damage. It shall permit application over

and conformance to moderate, shallow embossing characteristics of certain sign borders and symbols. Following liner removal, the reflective sheeting shall not shrink more than 1/32" (0.79 mm) in 10 minutes nor more than 1/8" (3.18 mm) in 24 hours in any dimension per 9" (22.9 cm.) square at 72° F. (23°C.) and 50% RH.

The sheeting when applied according to manufacturer's recommendations to cleaned and etched .020" x 2" x 8" (5.08 mm x 5.0 cm. x 20.3 cm.) aluminum, conditioned (24 hours) and tested at 72° F. and 50% RH shall be sufficiently flexible to show no cracking when bent around a 3/4" (19.05 mm) mandrel.

2. Surface — The sheeting surface shall be smooth and flat, facilitate cleaning and wet performance, and exhibit 85° glossmeter rating of not less than 40 (ASTM-D-523-62T). The sheeting surface shall be readily processed and compatible with recommended transparent and opaque process colors and show no loss of the color coat with normal handling, cutting, and application.

The sheeting shall permit cutting and color processing at temperatures of 60-100° F. (15°-38° C.) and relative humidities of 20-80%. The sheeting shall be heat-resistant and permit force curing without staining of unapplied sheeting at temperatures up to 150° F. (65° C.) and up to 200° F. (93° C.) on applied sheeting. The sheeting surface shall be solvent resistant such that it may be cleaned with gasoline, VM&P Naphtha, mineral spirits, turpentine, methanol and xylol.

3. Lens Elements — The reflective sheeting shall possess stable and durable spherical lens elements which, following extraction, shall show no deterioration following submersion in a 5N solution of sulphuric acid (H_2SO_4) for 30 minutes at 72° F. (23° C.).

E. Durability

1. Reflective sheetings processed, applied to approved sign base materials, and cleaned, in accordance with manufacturer's recommendations for their use on traffic control signs, shall be considered as performing satisfactorily for the number of years stated by the bidder if the sheetings have not deteriorated due to natural causes to the extent that: 1) the sign is ineffective for its intended purpose when viewed from a vehicle, or 2) the average nighttime reflective brightness is less than that specified in Table II below. The bidder's only liability shall be replacement of all reflective sheeting failing to give satisfactory performance for the number of years stated by the bidder.

TABLE II

Sheeting Type & Color	Average minimum candlepower per foot candle per square foot (candelas per lux per square meter) at 0.2° divergence and -4° incidence*	Satisfactory Performance Life**
Silver-White #1	30	____ Years
Silver-White #2	36	____ Years
Yellow	20	____ Years
Red	5	____ Years
Blue	2	____ Years
Green	3	____ Years
Orange	10	____ Years

*Candlepower measurement shall be made, following sign cleaning, in accordance with procedure recommended by the sheeting manufacturer.

**Performance years for each color shall be stated by the bidder.

2. The reflective material exposed at a commercial test facility for 24 months in Florida at 45° south facing, shall not support fungus growth and accumulate dirt to the extent that the reflective brightness before cleaning is less than 75% of the reflective brightness after cleaning, as measured at 0.2 divergence and -4° incidence. The bidder shall be responsible for cleaning

3. The sheeting surface may be readily refurbished by cleaning and clear overcoating in accordance with the manufacturer's recommendations.

F. General Characteristics and Packaging

The reflective sheeting as supplied shall be of good appearance, free from ragged edges, cracks, and extraneous materials, and shall be furnished in both rolls and sheets. When the reflective sheeting is furnished in continuous rolls, the average number of splices shall not be more than three per 50 yards (45.7m) of material with a maximum of four splices in any 50 yard length. Splices shall be butted or overlapped and shall be suitable for continuous application as supplied.

Rolls shall be packed snugly in corrugated fibreboard boxes in accordance with commercially accepted standards.

Rolls 3" (7.6 cm.) in width to 12" (30.5 cm.) in width shall be packed in corrugated fiberboard cartons of minimum 200 lb. test (90.7 kg.). Rolls 13" (33 cm.) in width to 24" (61 cm.) in width shall be packed in corrugated fiberboard cartons of 275 lb. test (124.7 kg.). Rolls 25" (63.5 cm.) in width and above shall be packed in corrugated cartons of minimum 350 lb. test (158.8 kg.). Rolls wider than 6" (15.2 cm.) and 10 yards (9.2 m) in length or longer shall be supported and suspended by the roll core within the cartons by means of plugs within built-up and reinforced corrugated pads.

Cut sheets shall be packaged flat between pressed composition board or corrugated pads of the same dimensions in accordance with commercially accepted standards.

Stored under normal conditions, the reflective sheeting as supplied shall be suitable for use for a period of at least one year.

NOTE: Metric equivalents in parenthesis.

PROPOSED SPECIFICATION
FOR
ENCAPSULATED LENS REFLECTIVE SHEETING FOR
TRAFFIC CONTROL SIGNS

SECTION I - DESCRIPTION

The reflective sheeting shall consist of spherical lens elements adhered to a synthetic resin and encapsulated by a flexible, transparent, weatherproof plastic having a smooth outer surface. The sheeting shall have a pre-coated adhesive backing protected by a treated plastic liner.

SECTION II - REQUIREMENTS

A. Photometric

The reflective sheeting shall have the following minimum brightness values at .2°, .5° and 1.5° divergence expressed as average candlepower per foot-candle per square foot (candelas per lux per square meter) of material. Measurements shall be conducted in accordance with standard photometric testing procedures for reflex-reflectors, paragraph 4.4.7 of Federal Specification L-S-300A, "Sheeting and Tape, Reflective; Non-exposed Lens Adhesive Backing" or as amended.

Div. Ang. Inc. Ang.	Silver-White			Yellow			Red		
	.2°	.5°	1.5°	.2°	.5°	1.5°	.2°	.5°	1.5°
-4°	250.0	95.0	4.0	150.0	57.0	3.0	35.0	13.0	0.7
40°	120.0	54.0	2.0	70.0	30.0	1.5	17.0	7.5	0.3

Div. Ang. Inc. Ang.	Green			Orange		
	.2°	.5°	1.5°	.2°	.5°	1.5°
-4°	30.0	11.0	0.4	60.0	20.0	1.0
40°	4.0	2.0	0.1	25.0	13.0	0.7

Wet performance measurements shall be conducted in accordance with standard rainfall test specified in Federal Specification L-S-300A and the brightness of the reflective sheeting totally wet by rain, shall not be less than 90% of the above values.

B. Color

The diffuse day color of the reflective sheeting shall conform to the requirements of Table I and shall be determined in accordance with ASTM E 97-55 "STANDARD METHOD OF TEST FOR 45-DEG, 0-DEG DIRECTIONAL REFLECTANCE OF OPAQUE SPECIMENS BY FILTER PHOTOMETRY". (Geometric characteristics must be confined to illumination incident within 10 deg. of and centered about, direction 45-deg. from the perpendicular to the test surface; viewing is within 15 deg. of and centered about the perpendicular to the test surface. Conditions of illumination and observation must not be interchanged.) The standards to be used for reference shall be the MUNSSELL PAPERS designated in Table I. Papers must be recently calibrated on a spectrophotometer.

The test instrument shall be one of the following:

1. GARDNER Multipurpose Reflectometer
2. GARDNER Model AC-2a Color Difference Meter
3. MEECO Model V Colormaster
4. HUNTERLAB D25 Color Difference Meter

TABLE I - CIE CHROMATICITY COORDINATE LIMITS

Color	x		y		x		y		x		y		Reflectance Limit		Ref. Std. MUNSELL PAPERS
													Min.	Max.	
Silver-White	.302	.289	.286	.306	.324	.344	.342	.327	30.0						5PB 7/0.7
Green	.152	.523	.211	.395	.172	.372	.105	.503	3.0	8.0					9.0G 3.3/9.5
Yellow	.483	.462	.510	.490	.560	.440	.534	.414	16.0	32.0					1.25Y 6/12
Red	.608	.288	.700	.298	.644	.352	.608	.352	4.0	8.0					8R 3.2/13
Orange	.535	.375	.535	.399	.582	.417	.607	.393	19.8	30.0					2.5YR 5.5/14.0

C. Adhesive

1. The reflective sheeting shall include a pre-coated pressure sensitive adhesive or a tack free heat activated adhesive either of which shall be applied exactly as specified by the sheeting manufacturer to recommended, properly prepared flat surfaces without necessity of additional adhesive coats on the reflective sheeting or application surface.
2. The protective liner attached to the adhesive shall be removed by peeling without soaking in water or other solvents and shall be easily removed after accelerated storage for 4 hours at 150°F. (65°C) under weight of 2.5 pounds per square inch (0.18 kg. per square cm.).
3. The adhesive shall form a durable bond to smooth, corrosion and weather resistant surfaces. The reflective sheeting, applied to cleaned and etched aluminum test panels shall adhere securely, 48 hours after application, at all normal application temperatures up to 150°F. (93°C) after the panels are conditioned for 24 hours at -10°F (-35°C), the adhesive bond shall be sufficient to render the applied sheeting vandal resistant and show no cracking when the surface of the reflective sheeting is exposed to the impact of a 2 pound (0.9kg) weight with a 5/8" (15.9mm) rounded tip dropped from a 10 inch pound (11.4cm kg) setting on a Gardner Variable Impact Tester, IG-1120M. The sheeting shall resist peeling from the application surface when a 5 lb/in. width (2.27 kg per 2.54 cm width) force is applied as outlined in ASTM D903-49.

D. 1. General

The reflective sheeting shall have sufficient strength and flexibility so that it can be handled, processed, and applied according to the recommendations of the sheeting manufacturer without appreciable damage. Following liner removal, the reflective sheeting shall not shrink more than 1/64" (0.40 mm) in 24 hours in any dimension per 9" (22.9 cm) square at 72°F. (23°C) and 50% RH.

The sheeting with liner removed, conditioned for 24 hours at 72°F. and 50% RH shall be sufficiently flexible to show no cracking when bent around 1/8" (3.18 mm) mandrel with adhesive side contacting mandrel. Note: For ease of testing, spread talcum powder on adhesive to prevent sticking to mandrel.

2. Surface

The sheeting surface shall be smooth and facilitate cleaning and wet performance, and exhibit 85° gloss meter rating of not less than 50 (ASTM D 523-62T). The surface of the sheeting with the heat activated adhesive shall be readily processed in accordance with recommendations of the sheeting manufacturer, compatible with recommended transparent and opaque process colors and show no loss of the color coat with normal handling, cutting, and application.

The sheeting shall permit cutting and color processing at temperatures of 60° -100° (15° -39°C) and relative humidities of 20-80%. The sheeting surface shall permit cleaning by wiping with a clean soft rag dampened in V.M.&P. Naphtha or mineral spirits.

3. Lens Elements

The reflective sheeting shall possess stable and durable spherical lens elements which, following extraction, shall show no deterioration following submersion in a 5N solution of sulphuric acid (H_2SO_4) for 30 minutes at 72° (23°C).

4. Impact Resistance

The sheeting, applied according to manufacturers recommendations to cleaned etched 0.40" x 3" x 5" (1 mm x 7.6 cm x 12.7 cm) aluminum (6061-T6) and conditioned for 24 hours at 72°F. (23°C) and 50% humidity shall show no cracking when face of panel is subjected to impact of a two pound (0.9 kg) weight with 5/8" (15.9 mm) rounded trip at 10 inch pound (11.4 cm kg) setting on a Gardner Variable Impact Tester, (IG-1120).

E. Durability

1. Reflective sheeting processed, applied to approved sign base materials, and cleaned, in accordance with manufacturer's recommendations for their use on traffic control signs, shall be considered as performing satisfactorily for the number of years stated by the bidder if the sheetings have not deteriorated due to natural causes to the extent that; (1) the sign is ineffective for its intended purpose when viewed from a vehicle, or (2) the average nighttime reflective brightness is less than that specified in Table II below. The bidders' only liability shall be replacement of all reflective sheeting failing to give satisfactory performance for the number of years stated by the bidder.

TABLE II

Sheeting Type and Color	Average minimum candlepower per foot candle per square foot at 0.2° divergence and -4° in- cidence *	Satisfactory Performance Life**
Silver-White	200	_____ Years
Green	24.0	_____ Years
Yellow	120.0	_____ Years
Red	28.0	_____ Years
Orange	48.0	_____ Years

* Candlepower measurement shall be made, following sign cleaning, in accordance with procedures recommended by the sheeting manufacturer.

** Performance years for each color shall be stated by the bidder.

2. The reflective sheeting exposed for 24 months in Florida at 45° south facing, shall not support fungus growth and accumulate dirt to the extent that the reflective brightness before cleaning is less than 75% of the reflective brightness after cleaning, when measured at 0.2 divergence and -4° incidence. The supplier shall furnish written evidence or samples showing conformance to this requirement.

F. General Characteristics and Packaging

The reflective sheeting as supplied shall be free from ragged edges, cracks, and extraneous materials, and shall be furnished in both rolls and sheets. When the reflective sheeting is furnished in continuous rolls the average number of splices shall not be more than three per 50 yards (45.7 m) of material with a maximum of 4 splices in any 50 yard length. Splices shall be suitable for continuous application as supplied.

On signs fabricated from Encapsulated Lens reflective sheeting, some wrinkling, streaking, and mottling shall be permitted, on visual quality inspection, if not apparent under normal viewing conditions for the intended use. The sheeting manufacturer shall assure that these conditions are not progressive and will not adversely affect performance.

Rolls shall be packed snugly in corrugated fiberboard boxes in accordance with commercially acceptable standards.

Rolls, 3" (7.6 cm) in width to 12" (30.5 cm) in width shall be packed in corrugated fiberboard cartons of min. 200# (90.7 kg) test. Rolls 13" (33 cm) in width to 24" (61 cm) in width shall be packed in corrugated fiberboard cartons of 275# (124.7 kg) test. Rolls 25" (63.5 cm) in width and above shall be packed in corrugated fiberboard cartons of min. 350# (158.8 kg) test. Rolls wider than 6" (15.2 cm) and 10 yards (9.2 m) in length or longer shall be supported and suspended by the roll core within cartons by means of plugs within built-up and reinforced corrugated pads.

Cut sheets shall be packaged flat between pressed composition boards or corrugated pads of the same dimensions as the sheets and shall be packed in accordance with commercially accepted standards and in accordance with the recommendations of the sheeting manufacturer.

The reflective sheeting as supplied, stored under normal conditions, shall be suitable for use for at least one year after purchase.

NOTE: Metric equivalents in parenthesis.

DIGEST SHEET*Finance*
S 73-03-19
*D-36-73*TITLE OF ORDINANCE Contract approval Reflective Sheeting and miscellaneous Sign Faces. Minnesota Mining and Manufacturing Co.DEPARTMENT REQUESTING ORDINANCE Traffic Engineering DepartmentSYNOPSIS OF ORDINANCE Purchase of Reflective Sheeting and miscellaneousSign Faces for the fabrication of Traffic Control Signs and Guides for 1973.These signs include the new "Symbol" signs and will provide a Uniform Type of
traffic control.EFFECT OF PASSAGE Will conform to Federal Requirements regarding "Uniform
Traffic Control Devices". These signs will provide a way
to communicate with the motorist. They will command attention, convey a clear,
simple meaning, command respect, voluntary compliance, and give adequate time
for proper response by all road users.EFFECT OF NON-PASSAGE Failure to conform to Federal requirements regarding
"Uniform Traffic Control Devices" would disqualify
the City for future Federal funding. Without legal methods used to communicate
with the motorist, it would reduce the efficiency of our street system, thus
creating unnecessary delay, congestion and increase accidents.

MONEY INVOLVED (Direct Costs, Expenditures, Savings) _____

Approximately \$10,000.00 - OR LESS. A catalog containing a price list and
discount sheet has been submitted.ASSIGNED TO COMMITTEE (J.N.) *Finance - W. L. Jr*

ORDINANCE CHECK-OFF SHEET

INFORMATION REGARDING ORDINANCE

CONTENTS OF ORDINANCE

BILL NO.	<i>D-73-03-19</i>
ORDINANCE NO.	<i>D-36-73</i>
<input checked="" type="checkbox"/> REGULAR SESSION	<i>3-27-73</i>
SPECIAL SESSION	
APPROVED AS TO FORM AND LEGALITY	<i>Keller</i>
BILL WRITTEN BY	<i>Trappes Eng.</i> <i>3-27-73</i>
DATE INTRODUCED	<i>3-27-73</i>
REFERRED TO SAID STANDING COMMITTEE	<i>Amended</i>
REFERRED TO CITY PLAN	
LEGAL PUBLIC HEARING	
LEGAL PUBLICATION	
JOINT HEARING	
DEPARTMENT HEARING	
HOLD FILE	
<input checked="" type="checkbox"/> PASS	<i>4-10-73</i>
DO NOT PASS	
WITHDRAWN	
SUSPENSION OF RULES	
PRIOR APPROVAL	
ORDINANCE TAKEN OUT OF OFFICE	
OTHER INSTRUCTIONS REGARDING ORDINANCE	
CORRECTIONS MADE TO ORDINANCE	
PEOPLE SPEAKING FOR ORDINANCE	
PEOPLE SPEAKING AGAINST ORDINANCE	

<input checked="" type="checkbox"/>	COMMITTEE SHEET
<input checked="" type="checkbox"/>	VOTE SHEET
<input checked="" type="checkbox"/>	PURCHASE ORDERS <i>specifications</i>
<input checked="" type="checkbox"/>	BIDS ORDERS, BIDS OR OTHER PAPERS TAKEN OUT AND BY WHOM
	LETTER REQUESTING ORDINANCE DRAWN UP BY CITY ATTORNEY
	<i>Trappes Eng.</i> COMMUNICATIONS FROM
	ZONING MAPS <i>specifications</i>
	ABSTRACTS <i>Information for Bill</i>
	<i>Request for publication</i> TITLES - <i>affidavit - survey</i>
	PRIOR APPROVAL LETTER <i>Diggs Truck</i>

COUNCILMAN'S VOTE

	AYES	NAYS	ABSENT
BURNS	<input checked="" type="checkbox"/>		
HINGA	<input checked="" type="checkbox"/>		
KRAUS	<input checked="" type="checkbox"/>		
MOSES	<input checked="" type="checkbox"/>		
NUCKOLS	<input checked="" type="checkbox"/>		
D. SCHMIDT	<input checked="" type="checkbox"/>		
V. SCHMIDT	<input checked="" type="checkbox"/>		
STIER	<input checked="" type="checkbox"/>		
TALARICO	<input checked="" type="checkbox"/>		

COMMENTS: